

Dmitri A Ivanov

List of Publications by Year in descending order

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59
papers

3,303
citations

257450
24
h-index

149698
56
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59
all docs

59
docs citations

59
times ranked

2706
citing authors

#	ARTICLE	IF	CITATIONS
1	Complexity of full counting statistics of free quantum particles in product states. Physical Review A, 2020, 101, .	2.5	4
2	Atomtronics with a spin: Statistics of spin transport and nonequilibrium orthogonality catastrophe in cold quantum gases. Physical Review B, 2019, 99, .	3.2	10
3	Universal many-body response of heavy impurities coupled to a Fermi sea: a review of recent progress. Reports on Progress in Physics, 2018, 81, 024401.	20.1	135
4	Computational complexity of exterior products and multiparticle amplitudes of noninteracting fermions in entangled states. Physical Review A, 2017, 96, .	2.5	2
5	Fermionic full counting statistics with smooth boundaries: From discrete particles to bosonization. Europhysics Letters, 2016, 113, 17009.	2.0	3
6	Fractional excitations in the square-lattice quantum antiferromagnet. Nature Physics, 2015, 11, 62-68.	16.7	162
7	Anderson localization of a Majorana fermion. Europhysics Letters, 2014, 106, 37006.	2.0	1
8	Fisherâ€Hartwig expansion for the transverse correlation function in the XX spin-1/2 chain. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 015001.	2.1	0
9	Fisherâ€Hartwig expansion for Toeplitz determinants and the spectrum of a single-particle reduced density matrix for one-dimensional free fermions. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 375005.	2.1	10
10	Superconducting proximity effect in quantum wires without time-reversal symmetry. Physical Review B, 2013, 87, .	3.2	3
11	Counting free fermions on a line: a Fisherâ€Hartwig asymptotic expansion for the Toeplitz determinant in the double-scaling limit. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 085003.	2.1	19
12	Magnetic interference patterns in long disordered Josephson junctions. Physical Review B, 2013, 87, .	3.2	5
13	Characterizing correlations with full counting statistics: Classical Ising and quantum $\langle X \rangle \langle Y \rangle$ spin chains. Physical Review E, 2013, 87, 022114.	2.1	43
14	Hybridization of wave functions in one-dimensional localization. Physical Review B, 2012, 85, .	3.2	15
15	Free fermions on a line: Asymptotics of the entanglement entropy and entanglement spectrum from full counting statistics. Europhysics Letters, 2012, 100, 60009.	2.0	28
16	Continuous interpolation between the fully frustrated Ising and quantum dimer models. Physical Review B, 2011, 83, .	3.2	1
17	Quantum fluctuations of one-dimensional free fermions and Fisherâ€Hartwig formula for Toeplitz determinants. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 485001.	2.1	35
18	Vison excitations in near-critical quantum dimer models. Europhysics Letters, 2011, 94, 57003.	2.0	2

#	ARTICLE	IF	CITATIONS
19	Phase transitions in full counting statistics for periodic pumping. Europhysics Letters, 2010, 92, 37008.	2.0	24
20	Correlations of the local density of states in quasi-one-dimensional wires. Physical Review B, 2009, 79, .	3.2	6
21	Factorization of quantum charge transport for noninteracting fermions. Physical Review B, 2009, 79, .	3.2	38
22	SU(2) approach to the pseudogap phase of high-temperature superconductors: Electronic spectral functions. Physical Review B, 2009, 79, .	3.2	3
23	Resonating-valence-bond physics and topological order in two dimensions: from dimer models to high-temperature superconductivity. , 2009, , .		0
24	Effective spin-flip scattering in diffusive superconducting proximity systems with magnetic disorder. Physical Review B, 2009, 80, .	3.2	15
25	Statistics of quantum transfer of noninteracting fermions in multiterminal junctions. Physical Review B, 2009, 80, .	3.2	7
26	Dysonâ€™Maleev representation of nonlinear sigma models. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 215003.	2.1	4
27	Allowed Charge Transfers between Coherent Conductors Driven by a Time-Dependent Scatterer. Physical Review Letters, 2008, 100, 086602.	7.8	46
28	Dimer phases in quantum antiferromagnets with orbital degeneracy. Physical Review B, 2007, 76, .	3.2	26
29	Crystallization of the resonating valence bond liquid as vortex condensation. Physical Review B, 2007, 76, .	3.2	20
30	Quasiparticle spectral weights of Gutzwiller-projected high-Tc superconductors. Physical Review B, 2007, 75, .	3.2	15
31	Single hole and vortex excitations in the doped Rokhsar-Kivelson quantum dimer model on the triangular lattice. Physical Review B, 2007, 76, .	3.2	6
32	Josephson current in a superconductor-ferromagnet junction with two noncollinear magnetic domains. Physical Review B, 2007, 75, .	3.2	42
33	Josephson current in a superconductor-ferromagnet-superconductor junction with in-plane ferromagnetic domains. Physical Review B, 2007, 76, .	3.2	33
34	Coherent spectral weights of Gutzwiller-projected superconductors. AIP Conference Proceedings, 2007, , .	0.4	0
35	Minigap in superconductor-ferromagnet junctions with inhomogeneous magnetization. Physical Review B, 2006, 73, .	3.2	53
36	Quantum mechanics with a time-dependent random unitary Hamiltonian: A perturbative study of the non-linear Keldysh sigma-model. Nuclear Physics B, 2006, 737, 304-336.	2.5	5

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37	Resonating-valence-bond structure of Gutzwiller-projected superconducting wave functions. Physical Review B, 2006, 74, .	3.2	5
38	Variational Monte Carlo study of the current carried by a quasiparticle. Physical Review B, 2006, 73, .	3.2	26
39	Dynamics of the quantum dimer model on the triangular lattice: Soft modes and local resonating valence-bond correlations. Physical Review B, 2006, 74, .	3.2	30
40	Minigap in a superconductorâ€‘normal metal junction with paramagnetic impurities. Physical Review B, 2005, 72, .	3.2	12
41	Zero-temperature properties of the quantum dimer model on the triangular lattice. Physical Review B, 2005, 71, .	3.2	68
42	Vortexlike elementary excitations in the Rokhsar-Kivelson dimer model on the triangular lattice. Physical Review B, 2004, 70, .	3.2	36
43	Antiferromagnetism and phase separation in the $t\hat{J}$ model at low doping: A variational study. Physical Review B, 2004, 70, .	3.2	41
44	Landau-Zener interferometry for qubits. European Physical Journal B, 2003, 36, 263-269.	1.5	73
45	Staggered-flux normal state in the weakly doped $t\hat{J}$ model. Physical Review B, 2003, 68, .	3.2	24
46	Minigap in a long disordered SNS junction: Analytical results. Physical Review B, 2002, 66, .	3.2	20
47	Projected wave functions for fractionalized phases of quantum spin systems. Physical Review B, 2002, 66, .	3.2	27
48	The supersymmetric technique for random-matrix ensembles with zero eigenvalues. Journal of Mathematical Physics, 2002, 43, 126-153.	1.1	48
49	Topologically protected quantum bits using Josephson junction arrays. Nature, 2002, 415, 503-506.	27.8	177
50	Non-Abelian Statistics of Half-Quantum Vortices in p-Wave Superconductors. Physical Review Letters, 2001, 86, 268-271.	7.8	1,529
51	Interference effects in isolated Josephson junction arrays with geometric symmetries. Physical Review B, 2001, 65, .	3.2	22
52	Staggered-Vorticity Correlations in a Lightly Doped $t\hat{J}$ Model: A Variational Approach. Physical Review Letters, 2000, 84, 3958-3961.	7.8	114
53	Two-level Hamiltonian of a superconducting quantum point contact. Physical Review B, 1999, 59, 8444-8446.	3.2	19
54	Staggered-spin contribution to nuclear spin-lattice relaxation in two-leg antiferromagnetic spin-1 ladders. Physical Review B, 1999, 59, 4803-4806.	3.2	11

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55	Phonon relaxation of subgap levels in superconducting quantum point contacts. JETP Letters, 1998, 68, 890-894.	1.4	12
56	Bipolaronic charge excitations in π -two-leg ladders. Physical Review B, 1998, 57, 2118-2126.	3.2	9
57	Coherent states of alternating current. Physical Review B, 1997, 56, 6839-6850.	3.2	156
58	KNIZHNIK-ZAMOLODCHIKOV-BERNARD EQUATIONS ON RIEMANN SURFACES. International Journal of Modern Physics A, 1995, 10, 2507-2536.	1.5	12
59	Photon-number measurements with cold atoms. Physical Review A, 1993, 47, 566-570.	2.5	11